

MEMOIR of a CHART  
of the  
BAY of BENGAL,

Published at the Expence of the United East India Company:

in 1772, by

*Dalrymple.*

SECOND EDITION.

L O N D O N :

Printed by GEORGE BIGG, 1787.

531. m. 2







TO THE HONOURABLE  
THE COURT OF DIRECTORS  
OF THE  
UNITED EAST-INDIA COMPANY,

IN FEBRUARY 1772,  
JOHN PURLING, Esq; being *Chairman*,  
GEORGE DUDLEY, Esq; *Deputy*.

DIRECTORS,

|                             |   |
|-----------------------------|---|
| Richard Bofanquet, Esq;     |   |
| Sir James Cockburn, Baronet |   |
| George Cuming,              | } |
| Peter Ducane, Junior,       |   |
| Henry Fletcher,             |   |
| Robert Gregory,             |   |
| John Harrison,              |   |
| Joseph Hurlock,             |   |
| William James,              |   |
| John Manship,               |   |
| John Michie,                |   |
| Frederick Pigou,            |   |
| John Roberts,               |   |
| Henry Savage,               |   |
| Joshua Smith,               |   |
| Laurence Sullivan,          |   |
| Harry Verelst,              |   |
| Edward Wheeler,             |   |
| Daniel Wier,                |   |
| John Woodhouse,             |   |

Esquires

T H I S      W O R K

Undertaken in pursuance of their *Encouragement*,

A N D

Executed at the Expence of the East-India Company,

IS INSCRIBED BY

The Company's old and faithful Servant,

ALEXANDER DALRYMPLE.







( 1 )

March 31, 1772.

MEMOIR OF A CHART  
OF THE  
BAY OF BENGAL.

---

IT must appear very extraordinary, when it is considered how long the *Europeans* have had an intercourse with *Bengal*, that there is not hitherto a *particular* Chart of the *Bay* of *Bengal* published in any language.

The Honourable Thomas Howe deceased, in the year 1763, after the action with a French Frigate in which he so gallantly defended his ship, went to the Coast of *Orixa*; in his passage from thence to *Bengal* he had an opportunity of correcting the Chart of this Coast in the *Neptune Oriental*: and having reduced to a *general Scale* all the particular Charts in his possession of the Coasts, &c. in the *Bay* of *Bengal*, he connected them together in the best manner he could.

Soon after my return to England, in 1765, Mr. Howe gave me a Copy of his Chart; and encouraged me to revise and improve it from what materials I had collected: accordingly I set about this work and reduced the Coast of *Orixa* to a scale of 3 Inches to 1°—the *Original*, at first only intended as a correction of the *Neptune Oriental*, being somewhat more.

B

Plaiſted's



*Plaisted's* Survey of the *Coast of Chittagong*, served, both in Mr. Howe's Chart and mine, for the description of that Coast; but I added, from other authorities, some Banks remote from the Land.

The Coast of *Ava*, from *Negraïs* to *Chedube*, I laid down from various materials; but here I found so great a disagreement in the Latitudes, even where I was assured *all proper allowances* had been made, that I desisted from my intention of having the Chart engraven: however Capt. William Smith and I examined several Journals at the India-House, and laid down many *soundings* in the tracks across the Bay.

Copies of this Chart were given to several persons, amongst others to Capt. Mears and to Capt. Court, who, on their return last Year, testified the highest approbation of it, particularly concerning the *soundings* about *False Point* and *Point Palmiras*.

On mentioning their sentiments to the Honourable Mr. Howe, in his last illness, and shewing him the copy which the East-India Company had permitted me to take of the *late survey* of the *Coast of Bengal*, he very strongly recommended to me to publish this Chart, from an opinion that it would be very useful to the Company's Ships, and alledged that my objection, concerning the latitudes, was not of weight, as a proper caution might be given on that head.

Not long since, in conversation with Mr. Purling, the Chairman of the Court of Directors, saying that I would be at the trouble of engraving this Chart, if the Company would be at the expence, I was induced, from the sentiments he then



then expressed, to send him, soon after, a paper of proposals for his perusal, this he communicated to the Court of Directors, who instructed their Secretary to write me a letter encouraging me to execute this work.

When I drew up the proposals I only thought of adding the *new survey* to my Chart, and publishing it in that state; and had not indeed seriously weighed the matter, as it was only a private conversation; but, when I received the Company's letter, it became a subject of publick attention, and it occurred to me that, although this Chart was the *best* I knew of the *Bay of Bengal*, it was capable of amendment; and therefore that it was inconsistent with my own credit, and an unbecoming return to the ready encouragement given by the Company, to publish it in its then form; for although it was well enough as a MS Chart, yet a Chart presented to the *Publick* ought to be as compleat as materials will admit.

On mentioning this to Mr. Purling, and observing that it would be necessary for me to *new draw* the whole, he said what I alledged was just, and that he was convinced, as he at first told me, that it would cost much more than I reckoned; but that the Gentlemen of the Direction approved of it greatly, as they thought it would be very usefull, and therefore begged me to go on with it, and be assured that the Company would defray the expence.

The very handsome manner in which Mr. Purling behaved on the occasion has a claim, not only to my acknowledgement, but to that of the Publick, as to him, they are, in good measure, indebted for this Chart.

It



It was at first proposed to have engraved the Chart on two plates, comprehending the Bay with the Coasts of *Ava*, *Orixa*, &c. from  $16^{\circ}$  N, but on more mature consideration I have been induced to make *one* plate from  $19^{\circ}$  N, comprehending *both* Coasts: the Coasts to the Southward of this Latitude are the least material, but will take most time and trouble to lay down, which would retard the publication; the present limit comprehends the extremity of the *Bank of Soundings*; the former plan, of carrying the Chart down to  $16^{\circ}$  N, would have rendered it of an inconvenient size, when the two plates were united, and have occasioned a great blank by the open sea between the Coasts of *Ava* and *India*: which Coasts may, with more propriety, be engraved by themselves, should the materials for describing them be found sufficiently compleat for forming Charts worthy the attention of the Publick.

I have here given the *History of this Chart* from its first formation; and shall now particularly explain the various materials from which it was laid down in the state it now appears.

The position of *Calcutta*, in  $22^{\circ} 34' 43''$  N. and in  $88^{\circ} 33' 15''$  E Long. fr. Greenwich, is from the observations of the Honourable Mr. Howe; the Latitude taken by an astronomical Quadrant made by Mr. Bird,

|             |   |     |   |   |   |                       |      |
|-------------|---|-----|---|---|---|-----------------------|------|
| 1764, March | { | 4th | - | - | - | $22^{\circ} 34' 40''$ | } N. |
|             |   | 6th | - | - | - | $22. 34. 46.$         |      |

The Longitude deduced from an Emerfion of Jupiter's 1st Satellite on the 6th March 1764.

The



The Situation of *Islamabad*, in  $22^{\circ} 20' N$  Latitude,  $91^{\circ} 45' E$  Long. fr. Greenwich, was deduced by the *Astronomer Royal* from the Observation, made there, of the Transit of Venus in 1761.

The difference of Longitude between *Calcutta* and *Islamabad* by these observations  $3^{\circ} 11' 45''$ . is scarcely a mile different from the *late survey*, so that it may reasonably be presumed these places are exactly determined.—At the same time I do not mean to insinuate that any two astronomical Observations can be confided in for the determination of so small a distance as a mile.

These are the *only* observations I have of the Longitudes taken *asboar*.

*Ganjam* Flagstaff is in  $19^{\circ} 25' N$  Lat.  $85^{\circ} 17' E$  Long. by observations of  $\odot$  and  $\odot$  taken in September 1770 by Mr. Mears, Chief Mate of the *Egmont*; Mr. Howe places *Ganjam* in  $19^{\circ} 22' 30'' N$  which is  $2' 30''$  more to the southward. And, by the distance from the *False Point*, in  $85^{\circ} 6' E$  Longitude, which is only  $11'$  different from the Longitude observed by Mr. Mears; I have laid it down by Mr. Howe's Chart. Having copied the Coast, from *Ganjam* to the *Flat sandy Pt.* near the *Black Pagoda*, from that Chart.

From *this Point* to the *False Point* I have made a deviation from the *Chart*, to insert a plan of *Podgon* or *Codgoné*, communicated by Mr. Herbert, this Plan was made by W. Helman 1742. The *Island* at the *W<sup>n</sup>. Extremity of this Bay* is called, in the plan, the *False Point*, but, as the Land trends away to the Eastward, this would be entirely incompatible with the



*Survey* from *P<sup>r</sup>. Palmiras* to *False Point*: which *Survey* also describes *False Bay* quite differently from *Helman's* plan of *Codgoné*, of which place I have some other sketches and memorandums similar to the Plan. The *double Bank* in *Mr. Howe's* Chart pointed out to me the position of *Codgoné*; the *W<sup>n</sup>. Sand* being (as I suppose) off *Helman's* *False P<sup>r</sup>* (which I shall call *Codgoné P<sup>r</sup>*) the *E<sup>n</sup>. Sand* off the *False P<sup>r</sup>* of the *Survey*; *Mr Howe's* Latitude of *False P<sup>r</sup>* being somewhat more *southerly* than the Land is described in the *Survey*, I have continued the *Land* to *Mr. Howe's* Latitude; a memorandum in *Helman's* plan confirms the alteration I have made, by inserting *Codgoné* in this place, for he says, speaking of some *Trees* laid down in his plan,<sup>a</sup> "These bearing N. you " have *soft ground*," which bearing is *just clear* of *Mr. Howe's* *W<sup>n</sup>. Sand* and corresponds to the *mud gap* he describes, which it is very natural to expect as the *River of Cuttack* falls into this bay.

The insertion of *Codgoné Bay* carries the Land from *False Point* more *Westerly* than in *Mr. Howe's* Chart, and, consequently, the Land from the *Black Pagoda* more *Northerly* than *Mr. Howe* describes it; this is very consonant to the *Neptune Oriental*.

The *Survey* sent to the Company from Bengal bears the name of John Ritchie, but, it is said, great part of it was made by *Plaisted*: It is not accompanied with any explanation; it has been reduced, and this reduction implicitly followed from *False Point* to *Chittagong*; but the *Coast* of *Chittagong* appearing to be taken, not from *Plaisted's* *Survey*, but from his *first* sketch,

---

<sup>a</sup> Vid. i in Chart,



sketch,<sup>b</sup> I have preferred *Plaisted's* Survey in 1761, to this Part of the *New Chart*: however I have added some dangers omitted by *Plaisted*; it is to me very obvious, that the dangers on this Coast are very far from being yet exactly described.

I have added the River to Calcutta, and traced the other Channels up from their mouths.—My intention, in tracing the rivers, was to point out the direction of the *Stream*, that Ships may avoid it, or take the advantage of it, according to circumstances.

I find the *Tails* of the *Sands*, at the Mouth of *Bengal River* in the *SURVEY*, by no means conformable to the Journals of Ships; should I hereafter publish the Chart of the Coast of *India*, I may perhaps make it comprehend the *Sands* laid down from the Journals, which would be useful as a caution.<sup>c</sup>

The *East side* of the Bay, to the Southward of *Red-Crab Island*, having been lately surveyed, I thought it would be improper to insert this *Coast* in the Plate, till the *Survey* is received; I shall therefore make a particular Plate of it from the bearings and observations I have met with, and in this Plate the Soundings from the *Coast* of *Arrackan* to the *Swatch*, or *Gut* of no ground, will be inserted: it will be on the same scale and is intended to be pasted to the Chart now published.<sup>d</sup>

Since

---

<sup>b</sup> By a letter from Capt. Ritchie, I am assured he did not take this Coast from any Chart made by *Plaisted*, but laid it down from his own observations; I have since published the various particular, and, I may add, discordant Plans of this Coast. *D*

<sup>c</sup> This Work has never been compleated. *D*

<sup>d</sup> Vide the various particular Plans of this Coast since published separately. *D*



Since this Memoir was printed I have received from the India-House a *Chart* of the Bay and River of Bengal, by Philip Parsons, 1743-4: in this Chart *Codgoné Bay* is, in figure, little different from Helman's plan; but N in that, is E in Helman's: Parsons says the river (marked 3 in the Chart) "vents near the *Black Pagoda*," this it would do according to the direction Helman gives it; but Parsons's Chart makes the Mouth of it a little to the Southward of *Codgoné Point*, or, what he calls, the *False Point*; several other notes in Parsons's Chart are equally contradictory to the bearings in his chart, though these notes are very consonant to Helman's bearings; Parsons says, "these Trees bearing N. [vide 1. in chart] you'll be in soft mud," which bearing in his chart leads over the gravelly bank;—again he says, "this Tree [vide 2 in chart] bearing N. in 7 fath. mud, a WNW course will carry you to the River's Mouth;" whereas, by his chart, this Tree bearing N is in a line over the Land into the River.—I therefore conclude Parsons has inserted the Plan of *Codgoné Bay* erroneously, by assuming the known bearings of *Point Palmiras* and the *False Point*, being misled by *Codgoné Point* being named the *False Point*.

My intention was to have accompanied this Chart with some Nautical Instructions and Observations; but I am not yet Master enough of the Subject to attempt any thing of this nature; and find it has already employed much more of my time and attention than I expected, or could conveniently bestow: and although all plain matters of fact are useful, ill-grounded deductions may be very prejudicial.

Soho-Square,  
16 Sept. 1772.

*Dalrymple*